Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-03-04** **Date: 07-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Babanna Layout colony roads in ward no 12, Shettyhalli, in Shettyhalli sub division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/324/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-2018
Sample ID No	:	2018-05-03-04 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-05-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.79	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.9	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-03-04** **Date: 07-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Babanna Layout colony roads in ward no 12, Shettyhalli, in Shettyhalli sub division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/324/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-05-2018
Sample ID No	:	2018-05-03-04 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	178	178	1.2	98.8	90-100
3	20 mm	7145	7323	48.8	51.2	30-70
4	10 mm	5699	13022	86.8	13.2	10-35
5	4.75 mm	1705	14727	98.2	1.8	0-5
6	Pan	273	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-03-04** **Date: 07-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Babanna Layout colony roads in ward no 12, Shettyhalli, in Shettyhalli sub division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer Reference	:	BBMP/EE/DD/WO/324/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-2018
Sample ID No	:	2018-05-03-04 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	–

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-05-03-04** **Date: 05-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Babanna Layout colony roads in ward no 12, Shettyhalli, in Shettyhalli sub division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/324/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-2018
Sample ID No	:	2018-05-03-04 /05
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	04-05-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	541	671	19.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	569	686	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	584	692	20.0%	Satisfactory	Satisfactory

Note:
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/05/2018

Lab ID	:	CP-2018-05-14-14
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Babanna Layout colony roads in ward no 12, Shettyhalli, in Shettyhalli sub division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/324/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-05-2018
Sample ID No	:	2018-05-14-14 /01
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	12/05/2018	19/05/2018	149.60 X 149.22 X 149.89	22324	8.377	416.2	18.6	18.6
2	RCC	M20	12/05/2018	19/05/2018	150.16 X 151.78 X 149.33	22792	8.057	419.9	18.4	
3	RCC	M20	12/05/2018	19/05/2018	150.16 X 151.64 X 149.36	22770	8.451	423.9	18.6	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-14-14** **Date: 19/05/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Babanna Layout colony roads in ward no 12, Shettyhalli, in Shettyhalli sub division.

Agency : Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010

Customer's Reference : BBMP/EE/DD/WO/324/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-05-2018

Sample ID No : 2018-05-14-14 /05

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	12/05/2018	19/05/2018	151.69 X 151.78 X 151.58	23024	8.239	419.8	18.2	18.4
2	RCC	M20	12/05/2018	19/05/2018	150.90 X 151.69 X 149.23	22891	8.517	417.7	18.2	
3	RCC	M20	12/05/2018	19/05/2018	150.96 X 150.47 X 149.84	22714	8.017	423.9	18.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lot ID :: CN/2018/45-1645

Date: 22/05/2018

Customer :: Assistant Executive Engineer, Bettahalli Sub Division, BBMP, Bangalore.

Address :: Bettahalli Sub Division, BBMP, Bangalore.

Project Name :: Improvement to road and drain at Behind Cayour colony road to metro at 12, Bettahalli, in Bettahalli sub division.

Agency :: Technical Manager (west), CIVILPRO, Project Implementation unit, No. 208, 59th Cross, 7th 'C' Main Road, 2nd 'T' Block, Rajajinagar, Bengaluru-560010

Customer's Reference :: BBMP/EE/DD/WO/2017-18

Source of Sample :: Sample supplied by Agency

Sample Condition :: Satisfactory

Date of Receipt :: 16-05-2018

Sample ID No :: 2018-05-1645 (03)

Customer ID :: CC Pavement

Sample Type/Size :: 150X150X150 mm

Sample grade/Age :: M20 / 7 Days Compressive Strength

Reference to BIS code :: IS:516 – 1959 Methods of Test for Strength of Concrete (CC)

Date of Test :: 22/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (Kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	CC Pavement	M20	16/05/2018	22/05/2018	150.70 X 149.94 X 149.78	22607	8.310	444.9	19.6	19.5
2	CC Pavement	M20	16/05/2018	22/05/2018	149.85 X 149.87 X 149.66	22455	8.250	444.2	19.6	
3	CC Pavement	M20	16/05/2018	22/05/2018	149.77 X 150.13 X 149.28	22485	8.434	438.5	19.5	

Note:

The results pertain to the samples received and tested.

All information furnished by Customer Representative.

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Samples will be disposed after 30 days from the date of issue of test certificate.

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R.S.SATTUR, BE,CEA

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